AEROFLEX LABORATORIES INCORPORATED

SOUTH SERVICE ROAD, PLAINVIEW, LONG ISLAND, NEW YORK

AREA CODE 516 MY 4-6700

PLEASE NOTE:
FORWARD WHITE COPY AND RETAIN
YELLOW COPY FOR YOUR FILES.

SPECIFICATION FOR TQ TORQUE MOTOR

Provision is made below for describing in detail the desired performance characteristics for your TQ Torque Motor requirements. When completed, this form will enable our engineering staff to offer a design which is optimized for your application. Due to the interdependency of the parameters listed below, it is requested that you indicate which of these are mandatory and which can be variable to achieve the mandatory characteristics. Please retain one copy for your files.

1) TQ TORQUE MOTOR

A. *Performance Requirements*

Max. Torque _____ (specify oz. in. — lb. in. — lb. ft.)
Duty Cycle _____ Power Input _____ watts
Angle of Rotation ± _____ degrees
Load Inertia _____ x 10- In-lb-Sec^2
Operating Temperature Range + _____ °C to — _____ °C
Torque Linearity: a) Torque gradient vs position _____ %
b) Torque vs current _____ %

B. *Electrical Requirements*

Type of Winding:
a) Single Winding: two terminal _____
b) Split Winding: push pull four terminal _____
Resistance of Winding(s) _____ Ω (each coil)

C. *Physical Requirements*

Form Factor: (a) Segment Type____ (b) Circular Type____
A sketch of the available space and mounting provision will assist in the selection of mounting arrangements.

2) AMPLIFIERS

For systems operation w
offer transistorized solid

A. *Amplifier Specificatio*

Signal Frequency ___
Input Signal Magnitu
Maximum Signal on
Required Amplifier I
Available Power Sup
Available Power Sup
Available Power Sup
Operating Temperatu

3) GENERAL:

Quantity ___
Delivery Required ___

Please provide the following

Name_____
Company_____
Address _____
Telephone Number_____

Please use the other side of t
information.

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TEL: 516-MY 4-6700
TWX: 516-694-3266

SPECIFICATION FOR TQ TORQUE MOTORS

Provision is made below for describing in detail the desired performance characteristics for your TQ Torque Motor requirements. When completed, this form will enable our engineering staff to offer a design which is optimized for your application. Due to the interdependency of the parameters listed below, it is requested that you indicate which of these are mandatory and which can be variable to achieve the mandatory characteristics. Please retain one copy for your files.

1) TQ TORQUE MOTOR

A. *Performance Requirements*

Max. Torque _____ (specify oz. in. — lb. in. — lb. ft.)
Duty Cycle _____ Power Input _____ watts
Angle of Rotation ± _____ degrees
Load Inertia _____ x 10- In-lb-Sec^2
Operating Temperature Range + _____ °C to — _____ °C
Torque Linearity: a) Torque gradient vs position _____ %
b) Torque vs current _____ %

B. *Electrical Requirements*

Type of Winding:
a) Single Winding: two terminal _____
b) Split Winding: push pull four terminal _____
Resistance of Winding(s) _____ Ω (each coil)

C. *Physical Requirements*

Form Factor: (a) Segment Type____ (b) Circular Type____
A sketch of the available space and mounting provision will assist in the selection of mounting arrangements.

2) AMPLIFIERS

For systems operation with an Aeroflex DC Torque Motor we offer transistorized solid state companion amplifiers.

A. *Amplifier Specification*

Signal Frequency _____
Input Signal Magnitude for Max. Torque _____
Maximum Signal on Input _____
Required Amplifier Input Impedance _____
Available Power Supplies: volts_____ frequency_____
Available Power Supplies: volts_____ frequency_____
Available Power Supplies: volts_____ frequency_____
Operating Temperature Range: Low_____ High_____

3) GENERAL:

	Motors	Amplifiers
Quantity	_____	_____
Delivery Required	_____	_____

Please provide the following information:

Name_____ Title _____
Company_____ Dept. _____
Address _____
Telephone Number_____ Extension _____

Please use the other side of the page for any comments or additional information.

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AREA CODE 516 MY 4-6700

Subject: Brushless DC Torque Motor

Dear Sir:

We appreciate receiving your recent inquiry requesting descriptive material on our new and unique TQ series of DC Torque Motors. Accordingly, we enclose a set of technical data sheets for several of our torque motors.

This new series of limited rotating devices have been developed with a new approach to dc motor design; the complete elimination of brushes and commutators. Since there are only two parts, the rotor and stator, you now have a new dimension in simplicity and reliability. Please note the additional feature of pancake type mounting. For your convenience, we are attaching a specification questionnaire and invite further correspondence with respect to your particular applications.

If further information is required, please do not hesitate to contact us or our sales representative in your area noted below.

Thank you for your interest in Aeroflex products.

Very truly yours,

Aeroflex Laboratories Incorporated

J. H. Lewis

J. H. Lewis, Sales Manager
Torque Motor Products

AEROFLEX TECHNICAL SALES REPRESENTATIVES

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Atlanta, Georgia 30305
Tel: 404-255-7433

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Aerol Associates Inc.
850 Lexington Street
Waltham, Mass. 02154
Tel: 617-894-7850

CHICAGO/MINNEAPOLIS
Aerol Associates Inc.
1545 Waukegan Road
Glenview, Illinois 60025
Tel: 312-729-1600

CINCINNATI, OHIO
Aerol Associates Inc.
6901 Wooster Pike
Cincinnati, Ohio 45227
Tel: 513-271-7733

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Detroit, Michigan 48235
Tel: 313-835-2333

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Bloomfield, Connecticut 06002
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Beverly Hills, Calif. 90211
Tel: 213-272-8251

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Sid Schmidt
207 E. Hackensack St.
Woodridge, N.J.
Tel: 201-GE8-2780

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Aerol Associates Inc.
207 So. Harrison St.
East Orange, N. J. 07018
Tel: 201-676-4080

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(Inc. FAIRFIELD COUNTY, CONN)
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Tel: 714-297-1041

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10306 N.E. 10th Street
Bellevue, Washington
Tel: 206-454-3029

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Aerol Associates Inc.
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Wichita, Kansas
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